

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/645,706
Filing Date	August 24, 2000
First Named Inventor	Wood, Keith
Group Art Unit	1652
Examiner Name	Prouty, Rebecca

Attorney Docket No: 341.005US1

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US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
RP	US-2003/0157643A1	08/21/2003	Almond, B. D., et al.	12/09/2002
	US-2006/0127988A1	06/15/2006	Wood, K. V., et al.	12/22/2005
	US-4,246,340	01/20/1981	Lundin, A. T., et al.	05/30/1979
	US-4,412,001	10/25/1983	Baldwin, T. O., et al.	12/03/1981
	US-4,503,142	03/05/1985	Berman, M. L., et al.	06/25/1982
	US-4,581,335	04/08/1986	Baldwin, T. O., et al.	12/01/1982
	US-5,106,732	04/21/1992	Kondo, K., et al.	02/14/1990
	US-5,168,062	12/01/1992	Stinski, M. F.	09/10/1990
	US-5,196,524	03/23/1993	Gustafson, G. D., et al.	01/06/1989
	US-5,221,623	06/22/1993	Legocki, R. P., et al.	07/19/1989
	US-5,605,793	02/25/1997	Stemmer, W. P.	02/17/1994
	US-5,618,682	04/08/1997	Scheirer, W.	02/08/1994
	US-5,629,168	05/13/1997	Kricka, Larry J.	06/07/1995
	US-5,744,307	04/28/1998	Kuroda, N., et al.	09/12/1995
	US-5,814,471	09/29/1998	Wood, K. V.	04/09/1997
RP	US-6,602,677	08/05/2003	Wood, K. V., et al.	98/15/1999

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
RP	EP-0337349A2	10/18/1989	Kajiyama, N., et al.	
	EP-0364707A1	04/25/1990	Tatsumi, H., et al.	
	EP-0437013A2	07/17/1991	Smith, D. F., et al.	
	EP-0449621A1	10/02/1991	Kajiyama, N.	
	EP-0524448A1	01/27/1993	Kajiyama, N., et al.	
	EP-0353464B1	10/20/1993	Tatsumi, H., et al.	
	JP-03-167288	07/19/1991	Inoue, S.	✓
	JP-07-067696 (w/ English Abstract)	03/14/1995	Yoshitami, M., et al.	
	JP-09-294600 (w/ English Abstract)	11/18/1997	Tatsumi, H., et al.	
	JP-10-87621	04/07/1998	Masako, M.	✓
	WO-90/01542A1	02/22/1990	Kazami, J., et al.	
	WO-91/16432A1	10/31/1991	Cornelissen, M., et al.	
	WO-92/15673A1	09/17/1992	Cormier, M. J., et al.	
	WO-95/18853A1	07/13/1995	Wood, K. V., et al.	
	WO-9726333A1	07/24/1997	Zolotukhin, S., et al.	
	WO-98/13487A1	04/02/1998	Stemmer, W. P., et al.	
RP	WO-98/46729A2	10/22/1998	Squirrell, D., et al.	

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OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

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RP		"Dual-Luciferase™ Reporter Assay System", (1998), 2 pgs.	
		"Luciferase Reporter Gene Technology", (1996), 4 pgs.	
		"Promega Technical Bulletin No. 161 - Luciferase Assay System With Reporter Lysis Buffer", (March, 1998), 9 pgs.	
		"Promega Technical Bulletin No. 101- Luciferase Assay System", (March, 1998), 9 pgs.	
		"Promega Technical Manual - Dual-Luciferase™ Reporter Assay System", (February, 1999), 26 pgs.	
		"Promega Technical Manual - Steady-Glo™ Luciferase Assay System", (October, 1998), 19 pgs.	
		"Steady-Glo™ Luciferase Assay System", (1998), 2 pgs.	
		"TESS - Filtered String Search Page", http://www.cbil.upenn.edu/cgi-bin/tess/tess?RQ=SEA-FR-QueryF , (June, 2006)	
		ALAM, J., et al., "Reporter Genes: Application to the Study of Mammalian Gene Transcription", <u>Analytical Biochemistry</u> , 188(2), (1990), 245-254	
		ANDREWS, E. M., et al., "Hierarchy of Polyadenylation Site Usage by Bovine Papillomavirus in Transformed Mouse Cells", <u>Journal of Virology</u> , 67(12), (December, 1993), 7705-7710	
		ARNOLD, F. H., "Directed Evolution: Creating Biocatalysts for the Future", <u>Chemical Engineering Science</u> , 51, (1996), 5091-5102	
		BACHMAIR, A., "In Vivo Half-Life of a Protein is a Function of its Amino Terminal Residue", <u>Science</u> , 234(4773), (1986), 179-186	
		BONIN, A. L., " <i>Photinus pyralis</i> Luciferase: Vectors that Contain a Modified <i>luc</i> Coding Sequence Allowing Convenient Transfer into Other Systems", <u>Gene</u> , 141(1), (1994), 75-77	
		BOROVKOV, A. Y., et al., "XcmI-containing Vector for Direct Cloning of PCR Products," <u>BioTechniques</u> , 22(5), (May, 1997), 812-814	
		BOTHWELL, A. L., et al., "Heavy Chain Variable Region Contribution to the NP ^b Family of Antibodies: Somatic Mutation Evident in a γ 2a Variable Region", <u>Cell</u> , 24(3), (June, 1981), 625-637	
RP		BOUTHORS, A.-T., "Site-Directed Mutagenesis of Residues 164, 170, 171, 179, 220, 237 and 242 in PER-1 β -lactamase Hydrolysing Expanded-Spectrum Cephalosporins", <u>Protein Engineering</u> , 12(4), (1999), 313-318	
		BOWIE, J. U., et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", <u>Science</u> , 247(4948), (March 16, 1990), 1306-1310	
		BRANCHINI, B. R., et al., "Naphtyl- and Quinolylluciferin: Green and Red Light Emitting Firefly Luciferin Analogues", <u>Photochemistry and Photobiology</u> , 49(5), (1989), 689-695 not submitted	
RP		BRONSTEIN, I. et al., "Chemiluminescent and Bioluminescent Reporter Gene Assays", <u>Analytical Biochemistry</u> , 219(2), (1994), 169-181	

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RP		CADWELL, R. C., et al., "Randomization of Genes by PCR Mutagenesis", <u>PCR Methods and Applications</u> , 2, (1992), 28-33	
		CARSWELL, S., et al., "Efficiency of Utilization of the Simian Virus 40 Late Polyadenylation Site: Effects of Upstream Sequences", <u>Molecular and Cellular Biology</u> , 9(10), (1989), 4248-4258	
		CHEN, C.-Y. A., "Interplay of Two Functionally and Structurally Distinct Domains of the c-fos AU-Rich Element Specifies Its Mrna-Destabilizing Function", <u>Molecular and Cellular Biology</u> , 14(1), (January, 1994), 416-426	
		DE WET, J. R., "Cloning of Firefly Luciferase cDNA and the Expression of Active Luciferase in <i>Escherichia coli</i> ", <u>Proc. Natl. Acad. Sci. USA</u> , 82, (1985), 7870-7873	
RP		DE WET, J. R., "Firefly Luciferase Gene: Structure and Expression in Mammalian Cells", <u>Molecular and Cellular Biology</u> , 7(2), (1987), 725-737	
		DELUCA, M., et al., "Role of Sulfhydryl Groups in Firefly Luciferase", <u>Biochemistry</u> , 3(7), (1964), 935-939	
		DELUCA, M., et al., "The Hydrolase Properties of Firefly Luciferase", <u>Biochemical and Biophysical Research Communications</u> , 18(5-6), (1965), 836-842 not submitted	
RP		DELUCA, M., et al., "The Role of 1,N ⁶ -Ethenoadenosine Triphosphate and 1, N ⁶ -Ethenoadenosine", <u>Proc. Nat. Acad. Sci. USA</u> , 70(6), (1973), 1664-1666	
		DEMENTIEVA, E. I., "Physicochemical Properties of Recombinant <i>Luciola mingrelica</i> Luciferase and its Mutant Forms", <u>Biochemistry</u> , 61 (1), (1996), 115-119	
		FARR, A., et al., "A Pitfall of Using a Second Plasmid to Determine Transfection Efficiency", <u>Nucleic Acids Research</u> , 20(4), (February 25, 1992), Page 920	
		FLEER, R., "High-Level Secretion of Correctly Processed Recombinant Human interleukin-1 β in <i>Kluyveromyces lactis</i> ", <u>Gene</u> , 107(2), (1991), 285-295	
		FORD, S. R., et al., "Enhancement of Firefly Luciferase Activity by Cytidine Nucleotides", <u>Analytical Biochemistry</u> , 204(2), (1992), 283-291	
		FRAMPTON, J., et al., "Synergy Between the NF-E1 Erythroid-Specific Transcription Factor and the CACCC Factor in the Erythroid-Specific Promoter of the Human Porphobilinogen Deaminase Gene", <u>Molecular and Cellular Biology</u> , 10(7), (July, 1990), 3838-3842	
		FROMANT, M, et al., "Direct Random Mutagenesis of Gene-Sized DNA Fragments Using Polymerase Chain Reaction", <u>Analytical Biochemistry</u> , 224, (1995), 347-353	
		GLUZMAN, Y., "SV40-Transformed Cells Support the Replication of Early SV40 Mutants", <u>Cell</u> , 23(1), (January, 1981), 175-182	
RP		GOULD, S. J., "A Conserved Tripeptide Sorts Proteins to Peroxisomes", <u>The Journal of Cell Biology</u> , 108, (1989), 1657-1664	

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RP		GOULD, S. J., "Antibodies Directed Against the Peroxisomal Targeting Signal of Firefly Luciferase Recognize Multiple Mammalian Peroxisomal Proteins", <u>The Journal of Cell Biology</u> , 110, (1990), 27-34	
		GOULD, S. J., et al., "Firefly Luciferase as a Tool in Molecular and Cell Biology", <u>Analytical Biochemistry</u> , 175, (1988), 5-13	
		GOULD, S. J., "Identification and Characterization of a Peroxisomal Targeting Signal", <u>Dissertation Abstracts International</u> , Vol. 50/07-B, (1989), 2 pgs.	
		HANAHAN, D., "Chapter 4 - Techniques for Transformation of <i>E. coli</i> ", In: <u>DNA Cloning: A Practical Approach</u> , Volume 1, Chapter 6, Glover, D.W., (Editor), IRL Press, Oxford, (1985), 109-135	
		HASTINGS, J. W., "Biological Diversity, Chemical Mechanisms, and the Evolutionary Origins of Bioluminescent Systems", <u>Journal of Molecular Evolution</u> , 19(3/4), (1983), 309-321	
		HÖFTE, H., et al., "Structural and Functional Analysis of a Cloned Delta Endotoxin of <i>Bacillus thuringiensis</i> Berliner 1715", <u>European Journal of Biochemistry</u> , 161, (1986), 273-280	
		HOLCIK, M., et al., "Four Highly Stable Eukaryotic mRNAs Assemble 3' Untranslated Region RNA-Protein Complexes Sharing cis and Trans Components", <u>Proc. Natl. Acad. Sci. USA</u> , 94, (March, 1997), 2410-2414	
		HSIEH, C.-J., "Nucleotide Sequence, Transcriptional Analysis, and Glucose Regulation of the Phenoxazinone Synthase Gene (<i>phasA</i>) from <i>Streptomyces antibioticus</i> ", <u>Journal of Bacteriology</u> , 177(20), (October, 1995), 5740-5747	
		JANOWSKI, M., "Ras Proteins and the ras-Related Signal Transduction Pathway", <u>Radiation and Environmental Biophysics</u> , 30(3), (1991), 185-189	
		JENSEN, P. R., et al., "The Sequence of Spacers Between the Consensus Sequences Modulates the Strength of Prokaryotic Products", <u>Applied and Environmental Microbiology</u> , 64(1), (January, 1998), 82-87	
		JOHNSON, L. R., "Role of the Transcription Factor Sox-2 in the Expression of the FGF-4 Gene in Embryonal Carcinoma Cells", <u>Molecular Reproduction and Development</u> , 50(4), (1998), 377-386	
		JONES, P. L., "Tumor Necrosis Factor Alpha and Interleukin-1 β Regulate the Murine Manganese Superoxide Dismutase Gene Through a Complex Intronic Enhancer Involving C/EBP- β and NF- κ B", <u>Molecular and Cellular Biology</u> , 17(12), (1997), 6970-6981	
		KAJIYAMA, N., et al., "Enhancement of Thermostability of Firefly Luciferase from <i>Luciola lateralis</i> by a Single Amino Acid Substitution", <u>Bioscience, Biotechnology, and Biochemistry</u> , 58(6), (June 1994), 1170-1171	
RP		KAJIYAMA, N., et al., "Isolation and Characterization of Mutants of Firefly Luciferase Which Produce Different Colors of Light", <u>Protein Engineering</u> , 4(6), (August 1991), 691-693	

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RP		KAJIYAMA, N, et al., "Thermostabilization of Firefly Luciferase by a Single Amino Acid Substitution at Position 217", <u>Biochemistry</u> , 32(50), (December 21, 1993), 13795-13799	
		KAO, R., et al., "Single Amino Acid Substitutions Affecting the Specificity of the Fungal Ribotoxin Mitogillin", <u>FEBS Letters</u> , 466(1), (January 21, 2001), 87-90	
		KAY, S. A., et al., "Video Imaging of Regulated Firefly Luciferase Activity in Transgenic Plants and <i>Drosophila</i> ", <u>Promega Notes Magazine</u> , 49, (1994), 7 pgs.	
		KUPRASH, D V., "Conserved κ B Element Located Downstream of the Tumor Necrosis Factor α Gene: Distinct NF- κ B Binding Pattern and Enhancer Activity in LPS Activated Murine Macrophages", <u>Oncogene</u> , 11(1), (1995), 97-106	
		KUTUZOVA, G. D., et al., "Bioluminescence Color Variation and Kinetic Behavior Relationships Among Beetle Luciferases", <u>Bioluminescence and Chemiluminescence, Molecular Reporting with Photons</u> , J W Hastings et al., (Editors), John Wiley & Sons, Chinchester, England, (1996), 248-252	
		LAMB, K A., "Effects of Differentiation on the Transcriptional Regulation of the FGF-4 Gene: Critical Roles Played by a Distal Enhancer", <u>Molecular Reproduction and Development</u> , 51(2), (1998), 218-224	
		LATHE, R., "Synthetic Oligonucleotide Probes Deduced From Amino Acid Sequence Data Theoretical and Practical Considerations", <u>Journal of Molecular Biology</u> , 183, (1985), 1-12	
		LEE, R. T., "Substrate-Binding Properties of Firefly Luciferase", <u>Archives of Biochemistry and Biophysics</u> , 141(1), (1970), 38-52	
		LEWIS, M. K., et al., "Efficient Site Directed <i>in vitro</i> Mutagenesis Using Ampicillin Selection", <u>Nucleic Acids Research</u> , 18(12), (1990), 3439-3443	
		LORENZ, W. W., et al., "Isolation and Expression of a cDNA Encoding <i>Renilla reniformis</i> Luciferase", <u>Proc. Nat. Acad. Sci. USA</u> , 88, (May, 1991), 4438-4442	
		LUCAS, M., et al., "Coelenterazine Is a Superoxide Anion-Sensitive Chemiluminescent Probe: Its Usefulness in the Assay of Respiratory Burst in Neutrophils", <u>Analytical Biochemistry</u> , 206(2), (November 1, 1992), 273-277	
		MANUKHOV, I. V., et al., "Cloning of the <i>Vibrio harveyi</i> luxA and luxB Genes and the Expression of Bioluminescence in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> ", <u>Russian Biotechnology</u> , 1, (1996), 1-6	
		MARANVILLE, E., et al., "Assessment of Amino-Acid Substitutions at Tryptophan 16 in α -galactosidase", <u>European Journal of Biochemistry</u> , 267(5), (2000), 1495-1501	
		MATSUMURA, I., et al., "Directed Evolution of the Surface Chemistry of the Reporter Enzyme β -glucuronidase", <u>Nature Biotechnology</u> , 17, (July, 1999), 696-701	
RP		MATTHEWS, J., "Purification and Properties of <i>Renilla reniformis</i> Luciferase.", <u>Biochemistry</u> , 16(1), (January 11, 1977), 85-91	

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RP		MCELROY, W. D., "Factors Influencing the Response of the Bioluminescent Reaction to Adenosine Triphosphate", <u>Archives of Biochemistry and Biophysics</u> , 22, (1949), 420-433	
		MCELROY, W. D., et al., "Function of Adenosine Triphosphate in the Activation of Luciferin", <u>Archives of Biochemistry and Biophysics</u> , 64, (1956), 257-271	
		MCELROY, W. D., et al., "Mechanisms of Bioluminescent Reactions", In: <u>A Symposium on Light and Life</u> , McElroy, W. D., et al., Editors, (John Hopkins Press, 1961), 219-257	
		MCWHERTER, C. A., et al., "Scanning Alanine Mutagenesis and De-Peptidization of a <i>Candida albicans</i> Myristoyl-CoA: Protein N-Myristoyltransferase Octapeptide Substrate Reveals Three Elements Critical for Molecular Recognition", <u>Journal of Biological Chemistry</u> , 272(18), (1997), 11874-11880	
		MOUNT, S. M., "Genomic Sequence, Splicing, and Gene Annotation", <u>American Journal of Human Genetics</u> , 67(4), (2000), 788-792	
		MOYER, J. D., et al., "Nucleoside Triphosphate Specificity of Firefly Luciferase", <u>Analytical Biochemistry</u> , 131(1), (1983), 187-189	
		MURAKAMI, S., et al., "Bioluminescent Enzyme Immunoassay Using Thermostable Mutant Luciferase and Acetate Kinase as a Labelled Enzyme", <u>Analytica Chimica</u> , 361, (1998), 19-26	
		MURRAY, I. A., et al., "Steroid Recognition by Chloramphenicol Acetyltransferase: Engineering and Structural Analysis of a High Affinity Fusidic Acid Binding Site", <u>Journal of Molecular Biology</u> , 254 (1995), 993-1005	
		NIBU, Y., "A Cell Type-Dependent Enhancer Core Element is Located in Exon 5 of the Human Angiotensinogen Gene", <u>Biochemical Biophysical Research Communications</u> , 205(2), (1994), 1102-1108	
		OW, D. W., "Transient and Stable Expression of the Firefly Luciferase Gene in Plant Cells and Transgenic Plants", <u>Science</u> , 234(4778), (November 14, 1986), 856-859	
		PETIT, T., et al., "A Mutation Ser ²¹³ /Asn in the Hexokinase 1 from <i>Schizosaccharomyces pombe</i> Increases Its Affinity for Glucoses", <u>Biochemical and Biophysical Research Communications</u> , 251(3), (October 29, 1998), 714-719	
		PINTO, M., et al., "Denaturation of Proteins During Heat Shock", <u>The Journal of Biological Chemistry</u> , 266(21), (1991), 13941-13946	
RP		PURDY, D., et al., "Heterologous Gene Expression in <i>Campylobacter coli</i> : The Use of Bacterial Luciferase in a Promoter Probe Vector", <u>FEMS Microbiology Letters</u> , 111(2-3), (August 1, 1993), 233-237	

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RP		REESE, M G., "Large Scale Sequencing Specific Neural Networks for Promoter and Splice Site Recognition", <u>Biocomputing: Proceedings of the 1996 Pacific Symposium</u> , Hunter, L., et al., Editors, World Publishing Co., Singapore (Abstract Only), (1996), 1 pg.	
		REESE, M G., et al., "New Neural Network Algorithms for Improved Eukaryotic Promoter Site Recognition", <u>The Seventh International Genome Sequencing and Analysis Conference</u> , Hilton Head Island, South Carolina, (Abstract Only), (1995), 1 pg.	
		RHODES, W. C., "The Synthesis and Function of Luciferyl-adenylate and Oxyluciferyl-adenylate", <u>J. Biol. Chem.</u> , 233(6), (1958), 1528-1537	
		RIGGS, K. J., et al., "Common Factor 1 Is a Transcriptional Activator Which Binds in the <i>c-myc</i> Promoter, the Skeletal α -Actin Promoter, and the Immunoglobulin Heavy-Chain Enhancer", <u>Molecular and Cellular Biology</u> , 11(3), (March, 1991), 1765-1769	
		ROMMENS, J. M., et al., "cAMP-inducible Chloride Conductance in Mouse Fibroblast Lines Stably Expressing the Human Cystic Fibrosis Transmembrane Conductance Regulator", <u>Proc. Natl. Acad. Sci.</u> , 88, (1991), 7500-7504	
		ROSENDAHL, M. S., et al., "Dimensional Probing of the ATP Binding Site on Firefly Luciferase", <u>Photochemistry and Photobiology</u> , 35(6), (1982), 857-861	
		SAIKI, R. K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase", <u>Science</u> , 239(4839), (January 29, 1988), 487-491	
		SAISANIT, S., "A Novel Enhancer, the Pro-B Enhancer, Regulates Id1 Gene Expression in Progenitor B Cells", <u>Mol. Cell. Biol.</u> , 15(3), (1995), 1513-1521	
		SALA-NEWBY, G., "Engineering a Bioluminescent Indicator for Cyclic AMP-Dependent Protein Kinase", <u>Biochemical. Journal</u> , 279(Part 3), (November 1991), 727-732	
		SALA-NEWBY, G. B., et al., "Expression of Recombinant Firefly Luciferase in Prokaryotic and Eukaryotic Cells", <u>Biochemical Society Transactions</u> , 20, (1992), Pg. 143S	
		SALA-NEWBY, G. B., "Stepwise Removal of the C-Terminal 12 Amino Acids of Firefly Luciferase Results in Graded Loss of Activity", <u>Biochimica et Biophysica Acta (BBA) - Protein Structure and Molecular Enzymology</u> , 1206(1), (1994), 155-160	
		SCHMIDT, E. V., et al., "The Cytomegalovirus Enhancer: A Pan-Active Control Element in Transgenic Mice", <u>Molecular and Cellular Biology</u> , 10(8), (1990), 4406-4411	
		SCHUTTE, B., et al., "Optimized Conditions for Cloning PCR Products Into an <i>XcmI</i> T-Vector", <u>BioTechniques</u> , 22(1), (January, 1997), 40-42, 44	
RP		SELIGER, H. H., "The Colors of Firefly Bioluminescence: Enzyme Configuration and Species Specificity", <u>Proc. Natl. Acad. Sci., USA</u> , 52(1), (1964), 75-81	

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	Application Number	09/645,706
	Filing Date	August 24, 2000
	First Named Inventor	Wood, Keith
	Group Art Unit	1652
	Examiner Name	Prouty, Rebecca
Sheet 8 of 10	Attorney Docket No: 341.005US1	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
RP		SENAPATHY, P., et al., "[16] Splice Junctions, Branch Point Sites, and Exons: Sequence Statistics, Identification, and Applications to Genome Project", <i>Methods in Enzymology</i> , 183, (1990), 252-278	
		SEOL, J. H., et al., "Site-Directed Mutagenesis of the Cys Residues in ClpA, the ATPase Component of Protease Ti (SlpAP) in <i>Escherichia coli</i> ", <i>Biological Chemistry</i> , 378(10), (Abstract Only), (1997), 1205-1209	
		SHERF, B. A., et al., "Dual-Luciferase™ Reporter Assay: An Advanced Co-Reporter Technology Integrating Firefly and <i>Renilla</i> Luciferase Assays", <i>Promega Notes Magazine</i> , Number 57, (1996), 7 pgs.	
		SIROT, D., et al., "A Complex Mutant of TEM-1 β -Lactamase With Mutations Encountered in Both IRT-4 and Extended-Spectrum TEM-15, Produced by an <i>Escherichia coli</i> Clinical Isolate", <i>Antimicrobial Agents and Chemotherapy</i> , 41(6), (June, 1997), 1322-1325	
		SOMMER, J. M., "In Vivo Import of Firefly Luciferase into the Glycosomes of <i>Trypanosoma brucei</i> and Mutational Analysis of the C-Terminal Targeting Signal", <i>Molecular Biology of the Cell</i> , 3, (1992), 749-759	
		STAPLETON, P. D., "Construction and Characterization of Mutants of the TEM-1 β -Lactamase Containing Amino Acid Substitutions Associated With Both Extended-Spectrum Resistance and Resistance to β -Lactamase Inhibitors", <i>Antimicrobial Agents and Chemotherapy</i> , 43(8), (August, 1999), 1881-1887	
		STEMMER, W. P., et al., "DNA Shuffling by Random Fragmentation and Reassembly: <i>In vitro</i> Recombination for Molecular Evolution", <i>Proc. Natl. Acad. Sci. USA</i> , 91(22), (October 25, 1994), 10747-10751	
		STEWART, C. L., et al., "Expression of Retroviral Vectors in Transgenic Mice Obtain by Embryo Infection", <i>The EMBO Journal</i> , 6(2), (February, 1987), 383-388	
		STRAUSS, E. C., "In vivo Protein-DNA Interactions at Hypersensitive Site 3 of the Human β -globin Locus Control Region", <i>Proc. Nat. Acad. Sci. USA</i> , 89, (July, 1992), 5809-5813	
		SZITTNER, R., et al., "Nucleotide Sequence, Expression, and Properties of Luciferase Coded by <i>lux</i> Genes from a Terrestrial Bacterium", <i>The Journal of Biological Chemistry</i> , 265(27), (September 25, 1990) 16581-16587	
		TARPEY, M. M., et al., "Chemiluminescent Detection of Oxidants in Vascular Tissue. Lucigenin But Not Coelenterazine Enhances Superoxide Formation", <i>Circulation Research</i> , 84(10), (May 28, 1999), 1203-1211	
		TERANISHI, K., "Coelenterazine Analogs as Chemiluminescent Probe for Superoxide Anion", <i>Analytical Biochemistry</i> , 249(1), (June 15, 1997), 37-43	
RP		VOLADRI, R. K. R., "Structure-Function Relationships Among Wild-Type Variants of <i>Staphylococcus aureus</i> β -Lactamase: Importance of Amino Acids 128 and 216", <i>Journal of Bacteriology</i> , 178(24), (December, 1996), 7248-7253	

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RP		WADA, K.-N., et al., "Codon Usage Tabulated From the GenBank Genetic Sequence Data", <u>Nucleic Acids Research</u> , 20(Suppl.), (1992), 2111-2118	
		WAGNER, E. F., et al., "Transfer of Genes Into Embryonal Carcinoma Cells by Retrovirus Infection: Efficient Expression From an Internal Promoter", <u>The EMBO Journal</u> , 4(3), (March, 1985), 663-666	
		WALKER, D. E., et al., "An Aspartic Acid at Amino Acid 108 Is Required To Rescue Infectious Virus After Transfection of a Poliovirus cDNA Containing a CGDD but Not SGDD Amino Acid Motif in 3D ^{pol} ", <u>Journal of Virology</u> , 69(12), (1995), 8173-8177	
		WHITE, P. J., et al., "Generation and Characterisation of a Thermostable Mutant of Luciferase from Photinus Pyralis", in: <u>Bioluminescence and Chemiluminescence, Fundamentals and Applied Aspects, Proceedings of the 8th International Symposium on Bioluminescence and Chemiluminescence</u> , John Wiley & Sons, Cambridge, (September 1994), 419-422	
		WHITE, P. J., "Improved Thermostability of the North American Firefly Luciferase: Saturation Mutagenesis at Position 354", <u>Biochemical Journal</u> , 319 (Part 2), (October 15, 1996), 343-350	
		WOOD, K. V., "Bioluminescent Click Beetles Revisited", <u>Journal of Bioluminescence and Chemiluminescence</u> , 4(1), (July, 1989), 31-39	
		WOOD, K. V., "Complementary DNA Coding Click Beetle luciferases Can Elicit Bioluminescence of Different Colors", <u>Science</u> , 244(4905), (May 12, 1989), 700-702	
		WOOD, KEITH V., "Introduction to Beetle Luciferases and Their Applications", <u>Journal of Bioluminescence and Chemiluminescence</u> , 4, (July, 1989), 289-301	
		WOOD, K. V., "Luc Genes: Introduction of Colour Into Bioluminescence Assays", <u>Journal of Bioluminescence and Chemiluminescence</u> , 5, (April, 1990), 107-114	
		WOOD, K. V., "Photographic Detection of Luminescence in <i>Escherichia coli</i> Containing the Gene for Firefly Luciferase", <u>Analytical Biochemistry</u> , 161(2), (March 1987), 501-507	
		WOOD, K. V., et al., "Synthesis of Active Firefly Luciferase by In Vitro Translation of RNA Obtained From Adult Lanterns", <u>Biochemical and Biophysical Research Communications</u> , 124(2), (October 30, 1984), 592-596	
		WOOD, K. V., "The Chemical Mechanism and Evolutionary Development of Beetle Bioluminescence", <u>Photochemistry and Photobiology</u> , 62 (4), (1995), 662-673	
RP		YANAI, K., et al. "A cis-acting DNA Element Located Between TATA box and Transcription Initiation site Is Critical in Response to Regulatory Sequences in Human Angiotensinogen Gene", <u>Journal of Biological Chemistry</u> , 271(27), (1996), 15981-15986	

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RP		YE, L., "Cloning and Sequencing of a cDNA for Firefly Luciferase from <i>Photuris pennsylvanica</i> ", <i>Biochimica et Biophysica Acta</i> , 1339 (1), (April 25, 1997), 39-52	
RP		ZHANG, J.-H. , et al., "Directed Evolution of a Fucosidase From a Galactosidase by DNA Shuffling and Screening", <i>Proc. Natl. Acad. Sci. USA</i> , 94(9), (April 29, 1997), 4504-4509	
RP		ZHAO, H. , et al., "Functional and Nonfunctional Mutations Distinguished by Random Recombination of Homologous Genes", <i>Proc. Natl. Acad. Sci. USA</i> , 94(15), (July 22, 1997), 7997-8000	

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